

CLAIMS

1. Multilayer mounting mat for mounting a pollution control element, said mounting mat comprising at least one intumescent layer disposed between at least one first non-intumescent layer and at least one second non-intumescent layer,

wherein said at least one intumescent layer comprises an intumescent material and has a surface density of at least about 500 g/m^2 , said at least one first non-intumescent layer comprises inorganic fibers, has a surface density of at least about 450 g/m^2 and defines an opposite major side of said mounting mat, and said at least one second non-intumescent layer comprises inorganic fibers, has a surface density of at least about 450 g/m^2 and defines another opposite major side of said mounting mat.

2. Multilayer mounting mat according to claim 1 wherein at least one of said first non-intumescent layer and said second non-intumescent layer comprises at least one of a layer of glass fibers, a layer of ceramic fibers obtainable from a sol-gel process, and a layer of annealed ceramic fibers.

3. Multilayer mounting mat according to claim 1 or 2 wherein the surface density of at least one of said first non-intumescent layer and said second non-intumescent layer is at least about 600 g/m^2 .

4. Multilayer mounting mat according to claim 1 or 2 wherein the surface density of at least one of said first non-intumescent layer and said second non-intumescent layer is at least about 800 g/m^2 .

5. Multilayer mounting mat according to claim 1 or 2 wherein the surface density of at least one of said first non-intumescent layer and said second non-intumescent layer is at least about 1000 g/m^2 .

6. Multilayer mounting mat according to claim 1 or 2 wherein the surface density of at least one of said first non-intumescent layer and said second non-intumescent layer is at least about 1400 g/m^2 .

7. Multilayer mounting mat according to any one of claims 1 to 6 wherein the surface density of said intumescent layer is at least about 1000 g/m².

5 8. Multilayer mounting mat according to any one of claims 1 to 6 wherein the surface density of said intumescent layer is at least about 1500 g/m².

9. Multilayer mounting mat according to any one of claims 1 to 6 wherein the surface density of said intumescent layer is at least about 2000 g/m².

10 10. Multilayer mounting mat according to any one of claims 1 to 9 wherein the uncompressed thickness of said intumescent layer is not more than about 1/3 of the combined uncompressed thicknesses of said first non-intumescent layer and said second non-intumescent layer.

15 11. Multilayer mounting mat according to claim 10 wherein the uncompressed thickness of each of said intumescent layer, said first non-intumescent layer and said second non-intumescent layer is in the range of from about 0.1 mm to about 10 mm.

20 12. Multilayer mounting mat according to claim 10 or 11 wherein the uncompressed thickness of said mounting mat is in the range of from about 3.0 mm to about 30 mm.

25 13. Multilayer mounting mat according to claim 1 or 2 wherein at least one of said first non-intumescent layer and said second non-intumescent layer comprises a layer of glass fibers and said glass fibers comprise magnesium aluminium silicate glass fibers.

30 14. Multilayer mounting mat according to any of the previous claims having a bulk density of 0.15 to 0.50 g/cm³.

15. Multilayer mounting mat according to any of the previous claims wherein said intumescent layer comprises an intumescent material selected from unexpanded vermiculite, expandable graphite and mixtures thereof.

5 16. Multilayer mounting mat according to any of the previous claims wherein said intumescent layer further comprises inorganic fibers.

10 17. Multilayer mounting mat according to any of the previous claims wherein at least one of said non-intumescent layers comprises inorganic fibers that are essentially shot free.

15 18. Pollution control device comprising a pollution control element arranged in a casing with a mounting mat as defined in any of claims 1 to 17 disposed between said casing and said pollution control element.